



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

**Jarmo Ilmari Maula, et al.**

Confirmation No. 6735

Application No. 10/609,136

Filed: June 26, 2003

For: **DIAPHRAGM VALVE FOR HIGH-  
TEMPERATURE PRECURSOR  
SUPPLY IN ATOMIC LAYER  
DEPOSITION**

Group Art Unit: 3753

Examiner: Kevin L. Lee

Date: March 31, 2005

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to the duty of disclosure, documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration.

- ☒ Copies of listed U.S. patents and U.S. patent application publications are not required for submission. (37 C.F.R. § 1.98(a)(2)(ii))
- ☐ Copies of listed foreign patent documents and non-patent literature are enclosed. (37 C.F.R. § 1.98(a)(2))
- ☐ Copies of the documents listed at (sheet/cite no.) \_\_\_\_\_ of the attached Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application No. \_\_\_\_\_, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. § 1.98(d))
- ☐ A copy of copending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, for \_\_\_\_\_, listed at (sheet/cite no.) \_\_\_\_\_ of the attached Form PTO-1449 (or equivalent), ☐ is enclosed / ☐ is omitted. (Copy not required if available via IFW. 1287 OG 163 (Oct. 19, 2004).).

2. This information disclosure statement is being submitted (check box a., b., or c.):

- a. ☐ Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office

action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or

- b. ☐ After the period set forth in paragraph 2a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)
- i. ☐ A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed, or
- ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below; or
- c. ☒ After the mailing date of a final action or notice of allowance and on or before payment of the issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a \$180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).
3. If a statement specified by 37 CFR 1.97(e) is required, the attorney or agent signing below hereby states that:
- ☐ each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
- ☒ no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
4. ☐ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

Respectfully submitted,

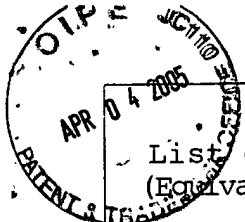
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By



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Attorney Docket No. 11429/13:2



List of References Cited  
(Equivalent to Form PTO-1449)

Application/Control No. 10/609,136	Applicant(s)/Patent Under Reexamination MAULA ET AL.	
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,073,648	06-2000	Watson et al.	137/375
	B	US-5,520,001	05-1996	Miyamoto et al.	62/50.2
	C	US-5,386,849	02-1995	Gilchrist et al.	251/331
	D	US-5,112,027	05-1992	Hanyu et al.	251/331
	E	US-4,513,945	04-1985	Otsuki et al.	251/129.15
	F	US-4,273,028	06-1981	Turnwald et al.	91/275
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	